Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Unit 7 Lesson 2 Meiosis Review Sheet**

1. By what type of cell division are sperm and egg cells made? What type of cell division are body cells made by?
2. How many cells are produced after Mitosis? How many cells are produced after Meiosis? How many cell divisions are involved in each type?
3. When a human sperm cell fertilizes an egg, what does the sperm cell transmit to the offspring?
4. Where does each chromosome in a pair of homologous chromosomes come from? How do they differ from each other?
5. Which chromosomes control the development of sex characteristics?
6. What is the result of one sex cell undergoing meiosis in humans?
7. The body cells of adult fruit flies each contain two pairs of chromosomes. How many chromosomes are there in the sex cells of each fly?
8. How is meiosis related to sexual reproduction?
9. How does meiosis I differ from meiosis II?
10. Body cells are diploid, or 2n. What does this mean?
11. What do chromosomes do in meiosis but not in mitosis?
12. If a sexually reproducing organism has 30 chromosomes in its body cells, how many chromosomes did it inherit from each parent?
13. What is fertilization?
14. What is a sex cell?
15. In which gender are egg cells produced and by which process? In which gender are sperm cells produced and by which process?
16. Why do the sex cells of an organism contain half the number of chromosomes as the organism’s body cells?
17. Copy and fill in the chart form pg. 462 in your books, comparing mitosis and meiosis.
18. A certain organism has a body cell with 4 homologous pairs of chromosomes. During sexual reproduction, how many chromosomes will this organism pass on to its offspring?